



Robert Chartuk/NOAA

NOAA Ship *Whiting* crewmember Mark Elwell (left) and executive officer Lt. Todd Haupt make final adjustments to the ship's Klein T5500 side scan sonar before beginning a search for EgyptAir flight 990 wreckage off Rhode Island.

NOAA Units Help Find EgyptAir Wreckage

—Robert Chartuk

A tragic air disaster again put NOAA expertise under the international spotlight in November as the agency's diverse assets were called upon in response to the Oct. 31 crash of EgyptAir flight 990 a hundred miles off the Rhode Island coast.

Running their first survey line at 4:30 a.m. Nov. 2, *Whiting's* crew found the airliner's major debris field on the first pass

Simultaneously, Cdr. Steve Barnum and Lt. Cdr. Emily Christman established NOAA as a focal point of disaster operations at Newport Naval Base.

As an anxious world waited for word from the response team, an intense low pressure system brought 50-knot winds and 20-

foot seas to the crash site, halting operations.

With the forecast of a break in the weather by a team at the Marine Prediction Center in Camp Springs, Md, and on-scene forecasters Dave Feit and Jim Hoke, *Whiting* and two Navy ships were able to resume operations the next day. Using its side-scan sonar and other unique search capabilities, *Whiting* mapped the 767's wreckage across the sea floor.

On site at Newport were specialists from the National Ocean Service's HazMat group, which helped point the way to the plane's debris. The NOS Office of Coast Survey also provided a map detailing the layout of the ocean floor more than 250 feet below.

NOAA Employees, Offices Honored

In December, NOAA and the Department of Commerce honor over 500 NOAA employees and organizational units for exemplary performance.

Gold Medals, the department's highest honorary award, are given annually in recognition of employees and units that have made extraordinary achievements that support the department's mission and have a significant benefit to the nation or the world.

Silver Medals, the department's second highest award, recognize extraordinary achievements in support of the department's mission.

Bronze Medals, the highest awards given by NOAA, recognize significant contributions to the DOC or NOAA missions.

NOAA Administrator Awards honor individuals and groups that have made significant contributions to NOAA's mission.

Spectrum Awards, an outgrowth of the NOAA Diversity Plan, recognize employees for their contributions and activities which promote NOAA's goals in managing diversity.

For a complete listing of award winners, turn to page 2. ☺

More than a month after the crash, various NOAA personnel, including Cdr. Barnum, remained on the job assisting the recovery effort.

For a more complete report of the search operation, see the January 2000 NOAA Report. ☺

Focus On... Employee Awards

Each year NOAA and the Department of Commerce honor employees and organizational units for exemplary public service and extraordinary contributions to the NOAA and department missions. A complete listing of NOAA winners of DOC Gold, Silver and Bronze Medals and recipients of NOAA Administrator Awards and Spectrum Awards for 1999 follows.

Gold Medals

Ward R. Seguin and William Joseph Carrigg (NWS); **Dennis S. Walts, Carl S. Bullock, Darien L. Davis, Joseph S. Wakefield and Uwe Herbert Grote** (OAR): For design, development and integration of the Advanced Weather Interactive Processing System infrastructure software.

Ronald D. Zwickl, Susan R. Sahm, Viola J. Raben, Richard N. Grubb, Kent A. Doggett, Thomas R. Detman and William P. Barrett (OAR): For design, development and implementation of the Real-Time Solar Wind System.

Office of NOAA Corps Operations, the National Ocean Service and the Office of Public and Constituent Affairs: For locating John F. Kennedy, Jr.'s, aircraft in support of victim recovery, salvage and investigative efforts.

NOAA Ship *Oregon II*: For heroic rescue efforts in saving three lives at sea off Cape Canaveral, Fla., on Feb. 28, 1998.

NWS Forecast Office, Norman, Okla.: For providing life saving weather warnings and other services during an outbreak of violent tornadoes on May 3, 1999.

Cdr. Grady H. Tuell (NOS): For radically advancing the accuracy and efficiency of shoreline mapping.

Roderick A. Scofield (NESDIS): For research in the use of satellite data to obtain estimates of heavy precipitation that are used in NOAA's critical flash flood forecasting program.

Isaac M. Held (OAR): For world leadership in the dynamics of climate and human-caused climate change.

Conrad V. Mahnken (NMFS): For pioneering research that led to scientific and technological breakthroughs in Pacific salmon enhancement, including salmon hatchery reform.

Larry G. Rutter (NMFS): For leadership and policy expertise which contributed to the successful agreement between the U.S. and Canada for new salmon fishery regimes.

Silver Medals

Lt. Cdr. Edward R. Cassano and Stephen F. Beckwith (NOS): For assisting in extinguishing an intense fire on the historic Santa Barbara, Calif., StearnsWharf on Nov. 18, 1998.

Stanley W. Elswick, Anna Fiolek, Steven R. Quillen, Doria B. Grimes, Jean Redmond Conrad, Linda Pikula, Maureen Hazel Woods, Elaine V. Collins, Janice A. Beattie and Dorothy Lamar Anderson (NESDIS): For developing NOAAALINC, the library and information network that provides desktop access to the publications of 28 NOAA libraries.

Robert O. Masters and D. Brent Smith (NESDIS): For teamwork in negotiating the landmark initial Joint Polar Orbiting Satellite System agreement.

Peter J. Wilensky and David R. Sanders (NWS): For timely forecast and flash flood warnings alerting Zion National Park visitors of imminent danger on July 27, 1998.

Douglas L. Brown, David B. Enabnit, Lloyd C. Huff, Oren E. Stembel, Cdr. Steven R. Barnum and Lt. Edward J. Van Den Amelee (NOS): For leadership in gaining approval of raster nautical chart systems as acceptable under the International Convention on Safety of Life at Sea.

John C. Derber, Michael W. Chalfant, Ralph R. Ferraro, Jr., Mitchell D. Goldberg, Norman Charles Grody, Thomas Joseph Kleespies, Larry Max McMillin, Tsan Mo, Anthony L. Reale and David Q. Wark (NESDIS): For accelerating the use of advanced microwave sounding unit satellite observations to advance the nation's capability in weather prediction.

Dennis G. Milbert and Dru A. Smith (NOS): For scientific achievement in developing national high-resolution geoid model improvements.

Michael H. Schiewe and Robert S. Waples (NMFS): For innovative scientific leadership in advancing the implementation of the Endangered Species Act by

introducing new science-based processes. **NOS Office of Response and Restoration, NWS Forecast Office, Portland, Oreg., and NMFS Northwest Region**: For an innovative response to the M/V *New Carissa* oil spill near Coos Bay, Oreg., protecting human health and the environment of coastal Oregon.

NWS Forecast Offices, Memphis, Tenn., and Little Rock, Ark.: For accurate and timely weather warnings during the week of Jan. 17, 1999, which saved many lives during a record outbreak of severe weather.

WSR-88D Operational Support Facility: For developing the WSR-88D Doppler Weather Radar Hotline, which provides around-the-clock meteorological operations and maintenance support.

Stormscale Research and Applications Division (OAR): For developing an important prototype warning decision support system for weather forecasters, resulting in more timely and reliable warnings.

NWS Forecast Offices, Tulsa, Okla., and Wichita, Kan.: For providing critical services which enhanced public safety during a prolonged period of severe weather and flooding on May 3-4, 1999.

NWS Forecast Office, Sioux Falls, S.D.: For life saving work during a devastating tornado that virtually destroyed the entire community of Spencer, S.D., on May 30, 1999.

David J. Schwab (OAR): For contributions to advanced modeling and forecasting of water movements and other physical conditions on the Great Lakes.

Alan E. Strong (NESDIS): For contributions in the field of ocean remote sensing and improved understanding of the world oceans and their fragile ecosystems.

Sybil P. Seitzinger (NMFS): For original research on the biogeochemistry of nitrogen cycling in marine coastal waters around the globe.

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Pamela M. Taylor (NESDIS): For preparing for the implementation of the product processing system for a new series of NOAA polar-orbiting environmental satellites.

Michael L. Grable (NMFS): For devising and implementing an innovative approach to reduce excess harvesting capacity in U.S. fisheries.

Bronze Medals

Office of General Counsel

Robert Babson: For professional excellence demonstrated in his legal work on *Village of Eyak, et al. v. Daley*.

Martin Freeman: For extraordinary leadership in connection with his legal work on the President's Lands Legacy Initiative and reauthorization of the Coastal Zone Management Act.

Systems Acquisition Office

Steven A. Schaffer (NESDIS) and **Wilfred E. Mazur, Jr., Andrew S. Carson, Michael W. Fitzmaurice, Jr., Daniel G. Flanagan, J. Philip Green, Paul Sunghwan Kim, Isadora Jean Knox, James L. O'Neal and James Thomas Parker:** For management excellence resulting in the acquisition of the highly successful NOAA polar-orbiting satellite series.

Office of Finance and Administration

Donald D. Cooper: For outstanding contributions to the permanent change of station process and the relocation processes for the WASC service community.

Linda Matthews Hood: For commitment to NOAA's FTS 2000 Program, excellence in government, improved efficiencies and cost containment resulting in significant savings for NOAA.

Walter R. Stelzer: For outstanding contribution to the design, coding and implementation of an automated relocation processing system.

Carolyn S. Straight and Daniel H. Graham: For extraordinary leadership in

the development of human resources cost and performance measures for the Administrative Support Centers. **Marcia F. Nolan, Frances L. Stephens, Cheryl P. Jordan, Toshiko I. Ohsiek, Tina M. Palmerin, Karen S. Roland, Suellen C. Stucker, Michelle Swinton and Sheryl E. Williams:** For outstanding customer service supporting a nationwide NWS recruitment initiative.

Rebecca Vasvary: For outstanding leadership in the information technology security community and improving NOAA's IT security management.

Nancy Briscoe, Lynette Ansell, Nir Barnea, Kirsten Erickson, Dana Greeley, Mark George, I. Sam Higuchi, Linda Jones, Angela Quinn, John Pierson, Jim Schell, Dan Strandy, Capt. Donald Suloff, Capt. Warren Taguchi, T. Minh Trinh and Dave Ulrich: For outstanding dedication and teamwork in exceeding the requirements of the Washington state compliance order.

Terry Vincent Babb, Penney D. Baile, Charles E. Beers, Mary J. Berklund, Branden S. Blum, Barbara Diane Brooks, Patricia A. Brown, Herbert C. Bruce, Jr., Linda Burroughs, Elizabeth D. Cano, James Anthony Cisco, III, Essie Coleman-Duffie, Howard P. Danley, Marjie Dee Dones, Michael F. Eng, James Patrick Faulkner, John Robert Hanson, Janice Hogan, Mark Christopher Holliday, Natalie B. Huff, Richard Charles Jackson, John Anthony Kaperick, Randall W. Kremkau, Michele Kuruc, Susan Kaplan, Melvin Lofgren, Lisa Pittman Love, Carolyn E. McDonald, Lynne Anne Mersfelder, Ruth Cowan Moore, Carol Ann Murray, David S. Nettleton, Capt. (ret.) Donald E. Nortrup, Kimberly Kaye Nye, Sherrie L. Rasmussen, Sennen S. Salapare, Tyra D. Smith, Michael R. Terrell, Ann Thorne, Stacey Topol, Darrell Gene Wallace, Michael J. Washington, Joseph M. Welch and Robert Ziobro: For helping NOAA workgroups focus energy on identifying issues from the SFA survey and recommending improvements to help improve NOAA's work environment.

Clark Weaver, James M. Belver and Rhonda Carpenter: For outstanding achievement improving the quality of MASC safety services, resulting in significant enhancements in the workplace environment.

Facilities Management Team: For addressing and resolving critical environmental issues that improved working

conditions for NOAA employees. **Headquarters Personal Property Team, Eastern Administrative Support Center Personal Property Team, Central Administrative Support Center Personal Property Team, Western Administrative Support Center Personal Property Team and Mountain Administrative Support Center Personal Property Team:** For exceptional leadership, commitment and dedication to the successful improvement of NOAA's personal property management system.

Office of NOAA Corps Operations

NOAA Aircraft Operations Center's Science and Engineering Division: For outstanding achievements in instrumentation, modification and calibration of NOAA's three heavy aircraft to meet urgent scientific requirements.

Bruce E. Stone: For outstanding electronic support that enabled NOAA ships and National Marine Fisheries Service scientists to meet data collection requirements.

Gary R. Gales, Sylvester J. Burks and Daniel J. Twohig: For engineering achievement in accomplishing the major repair period for NOAA Ship *Miller Freeman*.

National Marine Fisheries Service

Jonathan M. Kurland, Lee R. Crockett, James P. Burgess, III, Tracy K. Collier, Jeffrey N. Cross, Jane S. Hannuksela, Cindy A. Hartmann, Mark Helvey, Ronald Hill, Thomas J. Minello, Ramona A. Schreiber and Susan-Marie Stedman: For developing a national regulatory program to describe, identify, conserve and enhance EFH as required by the Magnuson-Stevens Act.

Michael B. Rust and Thomas M. Scott: For the design and implementation of an innovative water recirculation system that enhances the center's research capabilities for salmonid and marine fish culture.

Peter L. Berrien: For development and utilization of egg survey data to assess spawning stock abundance and for improvement of forecast capabilities of fish populations in the northeast *continued on page 4*

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mental shelf ecosystem.

Georgia Cranmore: For significant contributions to the sustainable fisheries of the Gulf of Mexico.

Karin A. Forney: For revealing a previously unrecognized threat to harbor porpoise, sea otters and seabirds off central California.

Irma V. Lagomarsino: For outstanding contributions to the successful development and implementation of the Pacific offshore cetacean take reduction plan.

Walter F. Gandy, Travis A. Burke, Beverly D. Lambert, Mark B. McDuff and Daniel T. O'Brien: For the development and implementation of a remote surveillance system resulting in a less costly method of apprehending law breakers and protecting critical habitat in the Florida Keys.

James C. Widman, Joseph Choromanski, Ronald Goldberg, Barry C. Smitha and Gary Wikfors: For design, development and application of an integrated microalgal, recirculating-water shellfish nursery and wastewater treatment system for aquaculture.

Craig E. Johnson: For developing and implementing training for NMFS regions and centers on preparing consultations under section 7 of the Endangered Species Act.

P. Michael Payne, Laurie K. Allen, Debra L. Palka, David C. Potter, John B.

Walden and Donna S. Wieting: For exemplary efforts to conserve strategic stocks of harbor porpoise in the Gulf of Main and the mid-Atlantic.

Joe Scordino, Robert DeLong, Thomas Eagle and Irma Lagomarsino: For professional excellence and teamwork in developing concepts and policies for resolution of the seal and sea lion conflicts on the west coast.

Mark Terceiro: For development of improved stock assessments and predictions of summer flounder and groundfish and contributions to peer reviews of stock assessments conducted by the National Academy of Sciences.

Michael R. Delarm: For outstanding leadership developing strategies for the use of artificial propagation for salmonids.

James R. Bybee, Steven A. Edmonson, Ian B. Gilroy, Deanna R. Harwood, John K. Johnson, Dawn Andrews McIntosh and Christopher T. Mobley: For exemplary efforts made to restore forty-one miles of chinook salmon spawning streams.

National Ocean Service

Neil K. Christerson: For leadership in a multi-year effort that resulted in NOAA's approval of the Minnesota Coastal Zone Management Program.

Lloyd C. Huff and Lt. Cdr. Gerd F.

Glang: For outstanding scientific and engineering achievement in hydrographic surveying.

Kirby A. Gean, II, Leonard J. Arkenau, Derald W. Dudley, Thomas J.

Finocchiaro, W. Erich Frey, Barbara B.

Hess, Marc E. Higgins, Roger M.

Johnson and Lara J. Petze: For the conception and development of the critical chart correction Website.

Glenn P. Boledovich, Michael B. Brown, Capt. Samuel P. DeBow, Jr., Stephen K.

Gill, Lloyd C. Huff, James R. Lucas, Dennis G. Milbert and David B. Zilkoski:

For leadership in developing and implementing an integrated plan for real-time navigation services.

Cdr. James C. Gardner, Jr., Robert L.

Blackburn, Stephen Currie, Lt. Cdr. Gerd F. Glang, Eugene G. Hellickson, Lt.

Thomas R. Jacobs, Lt. Cdr. Guy T. Noll, Jack L. Riley, Lt. Edward J. Van Den

Ameele and Michael E. Webb: For implementation of innovative shallow water multibeam survey technology aboard the NOAA Ship *Rainier* in 1998 and 1999.

David J. Chapman, Stephanie W. Fluke,

James H. Jeansonne, John W. Iliff and

Dolores C. Toscano: For leadership and excellence in conducting a precedent-setting natural resource damage assessment in the wake of the 1993 Tampa Bay oil spill.

C. Brian Greenawalt: For outstanding leadership, professional excellence and customer service in managing \$21.5M in contracts for hydrographic surveys in fiscal year 1999.

Office of National Geodetic Survey, Office of Coast Survey and the Center for Operational Oceanographic Products:

For leadership in developing, implementing and transferring the techniques and technology needed to determine high-accuracy bridge clearance.

National Ocean Service: For outstanding and distinguished leadership in implementing a regional approach for San Francisco Bay that represents notable innovation in research, development and delivery of federal services.

Office of Oceanic and Atmospheric Research

Matelon duPree: For contributions in furthering NOAA's scientific research programs through exceptionally conscientious administration of grants processing.

Marilyn I. Moll: For increasing the efficiency and effectiveness of the OAR Joint Institute Program, enabling outstanding scientists from around the world to work cooperatively with NOAA researchers.

Steven C. Ryan: For outstanding community service to high school students in developing the Hawaii Island Volcanic Mist Monitoring and Research Network.

National Sea Grant College Program: For a distinguished record of scientific research, education and public outreach focusing on coastal issues.

James L. Buizer, Candyce Clark, Randy Dole, Mark Eakin, Lisa Farrow, Claudia Nierenberg and Brigitte Thompson: For extraordinary contribution to the design, development and implementation of the El Niño-Southern Oscillation Rapid Response Project.

Victor Omelczenko: For superior management of the Office of Sea Grant's communications program and for leadership and mentoring of university-based communicators.

The David Skaggs Research Center Common Space Committee: For playing a paramount role in the effective functionality, aesthetic beauty and creative usefulness of the common space areas of the David Skaggs Research Center in Boulder, Colo.

Michael A. Doney (NESDIS), Terry M. Ganzel (NWS) and Richard N. Grubb, Britt Bassett, Richard Beeler, Robert J. Clark, Eric J. Hackathorn, Walter J. Harrop, Stephanus G. Hauwert, Alex Hsia, Jerry B. Janssen, Robert P. Masten, Donald R. Mock, Brian L. Moore, Daniel E. Smith, Kirk W. Thoning and Stan Wilkison: For exceptional leadership and expertise in developing a state-of-the-art telecommunications network for the David Skaggs Research Center in Boulder, Colo..

Thayne M. Thompson: For outstanding contributions to the *in situ* measurement of trace gases that influence ozone-depletion and greenhouse warming.

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Michael S. Uhart: For successful completion of the *NAPAP Biennial Report to Congress: An Integrated Assessment of the Acid Deposition Control Provision of the 1990 Clean Air Act Amendments*.

National Environmental Satellite, Data and Information Service

William G. Pichel and Pablo Clemente-Colon: For superior contributions in the field of ocean remote sensing and pathfinding applications of spaceborne synthetic aperture radar systems.

J. Neal Lott, Dawn W. Anders, Stephen E. Fleming, Douglas P. Ross, Hilery T. Whitehurst and Vickie S. Wright: For developing a state-of-the-art electronic commerce system that provides direct access to the world's climate data via the World Wide Web.

Paul S. Chang: For outstanding and innovative contributions in the development of experimental satellite ocean-surface wind products.

Janice A.M. Sessing, Felix N. Kogan, Stephen D. Ambrose, Jane A. D'Aguanno, Christopher D. Elvidge, Debra A. Molenaar, Elaine M. Prins, Thomas V. Snell and Linda J. Williams: For extraordinary development of unique and specialized remote sensing products that were used to protect the Amazonian rainforest from wild fires.

Paul P. Pellegrino: For outstanding and extraordinary contributions to quality assurance of meteorological satellite data and products.

Karen M. Marks and David C. McAdoo: For advancements in geophysics and tectonics of the southern oceans and Antarctic region using satellite altimeter data.

J. Dane Clark, Kira M. Alvarez, Robert M. Bassett, Barbara D. Brooks, H. James Silva and Charles Thomas Wooldridge: For extraordinary achievements in leadership and management involving the U.S. Space-based Data Collection System.

John F. Weaver: For outstanding public service in the application of forecast products to emergency preparedness and response.

Gary P. Ellrod, Robert M. Aune, Jaime M. Daniels, Donald W. Hillger, W. Paul Menzel, Debra A. Molenaar, Anthony J.

Mostek, Roger S. Phillips, Robert M. Rabin, Timothy J. Schmit, Roderick A. Scofield, Gary S. Wade, John F. Weaver and Raymond M. Zehr: For the development and implementation of distance learning technology to enhance the expertise of National Weather Service forecasters.

National Weather Service

Steven D. Buan: For pioneering efforts in the development and implementation of the NWS dynamic routing model for the Mississippi and Illinois Rivers.

Edward A. O'Lenic: For developing the U.S. threats assessment product linking extended range climate outlooks to weather-related threats for emergency managers.

Douglas M. LeCompte: For developing the U.S. drought monitor product in coordination with the USDA, its National Drought Mitigation Center and NWS regional offices.

Michel Davison: For the very significant enhancements of the services provided by the international desks at the Hydro-meteorological Prediction Center.

NWS Forecast Office, Amarillo, Tex.: For providing critical weather forecast and warning services before and during the severe winter storm of Jan. 27-31, 1999.

William H. Hooke (OAR) and Donna B. Franklin: For NOAA's outstanding leadership in Public Private Partnership 2000, an effort to reduce the impacts from natural hazards.

NWS National Reconditioning Center, Kansas City, Mo.: For superior customer service for reducing equipment back orders to zero.

NWS Forecast Office, Jackson, Miss.: For improving severe weather warning services which has resulted in a significant reduction in the number of weather-related fatalities in Mississippi.

NWS Forecast Office, Binghamton, N.Y.: For exceptional warning services during the May 21 to June 2, 1998, tornado outbreaks in central New York and northeast Pennsylvania.

NWS Forecast Office, Tampa Bay, Fla.: For significantly improving severe weather warning services and weather-related preparedness activities in central Florida.

NWS Forecast Office, Wilmington, Ohio: For outstanding service before, during and after the Blue Ash tornado of April 9, 1999.

NWS Forecast Office, Tucson, Ariz.: For outstanding efforts assuming all fire weather responsibilities for southeast Arizona.

Scott C. Kiser, Francis P. Richards and Joanna M. Dionne: For the establishment of an operational reporting process that describes NOAA's actions during extreme weather events.

Anthony Mostek: For leadership in the development of training and education for NWS meteorologists on interpreting data from the new GOES satellites.

Salim Leyva, Doug Gaer, Jiann Gwo Jiing and Brian Scott Maher: For major improvement in the dissemination of NWS forecast and warning information to emergency managers and the public.

Stanley B. Keefe: For exemplary public outreach efforts that resulted in increased awareness of the hazards of severe weather in the Aberdeen County warning area.

James L. Partain: For outstanding leadership in planning, organizing, directing and implementing MPC modernization activities for the period of Oct. 1, 1998 to Sept. 30, 1999.

William J. Urell, Paul D. Krenek, Douglas A. Martindale and Mark R.

Tomash: For meticulous attention to detail and superior knowledge that led to measurable improvements in WSR-88D data quality and system performance.

Mark S. Paese, Timothy A. Batliner, Michael R. Brown, Michelle A.

Detommaso, Eric A. Parr, Thomas C. Raffa and Iyad A. Salman: For successfully developing and implementing the new graphical user interface to the NWS engineering management reporting system.

NWS Forecast Offices, Pleasant Hill, Mo., and Dodge City, Wichita, Goodland, and Topeka, Kan., NWS Central Region Headquarters, and NWS Meteorological Services Division, Kansas City, Mo.: For critically significant contributions to the modernization and restructuring of the National Weather Service during the 1997-1998 pre-modernization demonstration.

Kenneth Putkovich, Jerald J. Dinges, Danny L. Duncan, Jeffrey J. Earl, T.L. Farrow, Peter Georgiou, Wayne E. Hart, Stanley Johnson, Jr., Larry J. Krudwig, Darryl L. Modracek, Freddy Peters, Gregory N. Smith and Timothy A.

Stanley: For certification of a NOAA Weather Radio transmitter manufacturer in support of the expanded broadcast of *continued on page 6*

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weather warnings to the U.S. population.

Michael R. Terrell: For providing outstanding leadership in technical support by managing parts obsolescence for NWS operational systems.

David S. Toronto: For software development automating the console replacement system using AWIPS products, resulting in CRS becoming a viable part of dissemination.

Ira S. Brenner and Shirley J. Matejka: For pioneering work on a control system for the NOAA Weather Radio national network of broadcast stations.

Khien B. Nguyen: For enhancement and implementation of the Product Availability Monitoring System in support of modernized NWS telecommunications.

NOAA Administrator's Awards

Office of the Under Secretary for Oceans and Atmosphere

Lee Porter: For outstanding dedication and commitment to personal and professional performance.

Office of High Performance Computing and Communications

Mike Kane, Harriet Chesi, Gary Falk, Alex Hsia, John Kyler, Brian Maher, Joel Perlroth, Ed Rappaport and Bill Turnbull: For substantially increasing NOAA's ability to meet the demand for hurricane advisory information through the Internet from hundreds of thousands of general public, state and local government and private sector Web users.

Office of General Counsel

Mark Eames: For exceptional leadership with the development and execution of the Columbia River Basin Forum.

Mariam McCall: For outstanding performance and dedication to the ongoing development of international and

domestic rebuilding programs for Atlantic highly migratory species.

Katherine A. Pease: For significant and unique contribution to the development, implementation and improvement of natural resource damage assessment and restoration actions.

Glenn E. Tallia: For outstanding contribution to the national and international development of data access laws and policies.

Michael Weiss: For outstanding achievements and extraordinary contributions to the National Marine Sanctuary Program.

Office of Finance and Administration

Susan Cuff, Mary Berklund, Elizabeth Cano, Kelly Curtis, John Hanson, Elizabeth Hess, Janice Kolk, Sandra O'Brien, Colette Magwood and James Warren: For contribution to the successful implementation of the Personnel Demonstration Project.

George R. Lambert: For development of the manifest system that automates shipment of items to the National Logistics Support Center.

Edward A. Wolfgang, Joyce Bowman, Candace Myers and Mary Trundle: For outstanding contributions to the conversion of NOAA's financial management system to be compliant with the Department of the Treasury's standard general ledger.

Stephanie J. Jones, Marie Buie-Walker, Terri Lewis and Necolle Mayhew-Eimas: For outstanding contribution in implementing a successful survey, feedback and action process for NOAA.

Barbara Marshall-Bailey: For outstanding contribution to the development of NOAA's Diversity Program.

Systems Acquisition Office

Gary Rice and Steven Thornton: For the development and production of the Next Generation Weather Radar System

Office of NOAA Corps Operations

Lt. Jeffrey C. Hagan, Lt. Michele A. Finn, Lt. Phillip G. Hall, James D. Houston, Jr., Lt. John K. Longenecker,

Michael J. Merek, Lt. Mark P. Moran, Alexander K. Rotteveel and Lt. Cdr. Thomas E. Strong: For an outstanding record of professionalism, quality and dedication in supporting a number of diverse NOAA projects related to the Aircraft Operations Center's Twin Otter aircraft.

Vincent Giacchina: For extraordinary accomplishments and unique engineering solutions for the repair and mission support to three of NOAA's ships.

Jerry Jarrell (NWS), Frank Lepore (OPCA) and Capt. Donald D. Winter, Lixion Avila, George W. Closser, A. Barry Damiano, Cdr. Philip M. Kenul, Cdr. Stephen A. Kozak, James D. McFadden, Howard C. Moore, Jr., Lt. Cdr. Timothy C. O'Mara, Cdr. Frank R. Philippsborn, Juan C. Pradas-Bergnes, Mark E. Rogers and Stevan A. Wade: For an outstanding public education effort that created international awareness of the state-of-the-art in hurricane measurement technology for individuals affected by Hurricane Georges on the Caribbean islands and Cuba.

National Marine Fisheries Service

Kimberly B. Blankenbeker: For extraordinary leadership and contribution to the international conservation and management of highly migratory fish stocks in the Atlantic Ocean.

Barbara L. Comstock: For outstanding contribution to the design and implementation of an efficient state-of-the-art electronic network.

Jan J. Charity: For the extraordinary contributions made to the National Marine Fisheries Service that have resulted in the improvement of administrative and operational processes.

Rodney C. Dalton: For achievement of important program goals and for superior management that has resulted in substantial improvement in the effectiveness and quality of Department of Commerce's service.

Natalie B. Huff: For outstanding contributions made to the management and execution of employee development, program management, diversity and equal employment opportunity programs within the National Marine Fisheries Service.

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Bonnie J. Ponwith: For excellent management and analysis of data acquisition needs for fisheries and protected species information.

Rickey N. Ruebsamen, Mary O'Brien and William B. Jackson: For professional excellence and leadership in the successful implementation of Environmental Conservation Program activities under the Magnuson-Stevens Fishery Conservation and Management Act.

Robert Turner, Steve Landino, Matthew Longenbaug and Michael Parton: For extraordinary achievement and leadership in the development and implementation of a successful NMFS habitat conservation plan that has contributed significantly to the recovery of endangered and threatened salmonids in the Pacific Northwest.

Usha Varanasi, Peter Kareiva, Lynn Krasnow and Michael Schiewe: For leadership in the design, implementation and completion of the anadromous fish appendix that resulted in redirection of natural resources to focus on producing first-class timely products with scientific integrity.

Susan E. Wigley: For major improvements to fishery catch and fishing effort databases in the U.S. Northeast which were indispensable in supporting stock assessments and management of fishery resources in the region.

National Ocean Service

Suzanne B. Bricker, Christopher G. Clement and Douglas E. Pirhalla: For their groundbreaking study of eutrophication in U.S. estuaries and coastal waters.

William G. Kass, Robert L. Dulaney, III, Robert B. Leonard, Gerald L. Mader, Dale G. Pursell and Mark S. Schenewerk: For outstanding teamwork in the development, implementation and maintenance of the Global Positioning System orbital products for the past decade.

William G. Conner: For extraordinary federal leadership of coastal stewardship in the environmental conservation and management of NOAA's Damage Assessment and Restoration Program.

David Walter Engel: For scientific contributions that increased the overall understanding of how chemical contaminants affect living marine resources.

John C. Kern: For exceptional leadership in developing and implementing innova-

tive, precedent-setting approaches in the field of natural resource damage assessment.

Michael Wayne LaCroix: For scientific contributions that documented the effects of urbanization and agricultural development on the living marine resources in Florida Bay.

R. Randall Schneider, Nina H. Garfield, Matthew E. Menashes and M. Nathalie Peter: For successful federal designation of three national estuarine research reserves.

Richard A. Snay, Gordon W. Adams, Donald E. Haw, Frank W. Mowry and Neil D. Weston: For developing and implementing UFCORS, a user-friendly information system that increased navigational safety and efficiency.

Office of Oceanic and Atmospheric Research

Leon Cammen: For personal excellence in managing complex environmental programs and providing unique contributions to management of the National Sea Grant College Program.

Thomas E. Croley, II: For outstanding research, development and application of advanced hydrological and lake level predictions for the Great Lakes.

Peter F. Landrum: For extraordinary leadership and efforts in the regional, national and international aquatic contaminants community.

Francis A. Schiermeier: For outstanding leadership of the NOAA Atmospheric Sciences Modeling Division in producing innovative air-quality modeling systems for cross-agency purposes.

Mary Catherine Steward: For creating revolutionary improvements to the administrative support functions of the Atlantic Oceanographic and Meteorological Laboratory.

National Environmental Satellite, Data and Information Service

Barbara O. Boyd: For exceptional administrative support that contributed to efficient facility management and employee health and safety in NESDIS and NOAA.

Lawrence M. G. Enomoto: For extraordinary coordination of the Global Observa-

tion Information Network and for preparing and conducting the Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space.

John R. Fauerbach: For design, development and implementation of help desk and information desk systems that dramatically improved user support services at the National Climatic Data Center.

John O. Kinsfather: For exemplary leadership and innovative vision in the management, development and implementation of NOAA's information systems.

Lance Seman: For outstanding contributions to the NOAA/NESDIS Fairbanks command and data acquisition station's 13-meter antenna system upgrade project.

Leanchan Charles Sun: For technical leadership in the development of the Web-based interactive data access and retrieval system that improved access to oceanographic data at the National Oceanographic Data Center.

National Weather Service

John Bradley, Michael DeWeese, Robert Elvander, Dana Griffin, Ida Hakkarinen, Charles Kluepfel, Jamie Kousky, Daniel Petersen, Robin Radlein, Joanne Swanson and Martha Yacoub: For successful completion of the operations phase of the Advanced Weather Interactive Processing System's 4.2 operational test and evaluation.

Thomas Graziano: For providing leadership and vision to improve quantitative precipitation forecasts to the user community.

Norman W. Junker: For significant and unique contributions to improved operational heavy rain and snow forecasts from National Weather Service offices across the nation.

William H. Lerner and Linda S.

Kremkau: For the revitalization and implementation of a completely revised service assessment process.

Bernard N. Meisner: For consistently providing an exceptionally high level of scientific and service support to the NWS field offices.

Jill R. Meldon: For excellence in the formulation, preparation and submission of the NWS modernization systems budget.

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John V. Wright, Jr.: For dedication in helping the National Weather Service achieve the vision of improved diversity.
Martin C. Yerg, Jr.: For continued efforts to maintain free and unrestricted flow of international data in support of NOAA's programs.

Spectrum Award Winners

Spectrum for Executives - "Leading By Example"

Margaret Davidson (NOS): For serving as a leader, role model and champion at the NOAA Coastal Services Center by demonstrating commitment to creating and managing a diverse workplace that works for all employees.

Rear Adm. Evelyn Fields (ONCO): For serving as a leader, role model and champion in her former role as Deputy Assistant Administrator for Ocean Services and Coastal Zone Management by demonstrating a commitment to creating and managing a diverse workplace that works for all employees.

Nancy Foster (NOS): For serving as a leader, role model and champion for managing diversity in her role as Assistant Administrator for Ocean Services and Coastal Zone Management by demonstrating a commitment to creating and managing a diverse workplace that works for all employees.

Thomas Pyke (HPCC and GLOBE): For serving as a leader, role model and champion for managing diversity in his role as Director of the High Performance Computing and Communications and Global Learning and Observation to Benefit the Environment Programs by demonstrating a commitment to supporting diversity initiatives and managing and creating a workplace that works for all current and prospective employees.

Spectrum Achievement Award - "Living The Vision"

Supervisory/Managerial Category

William T. Parker (NWS): For serving as a leader and actively using the survey,

feedback and action process to promote an atmosphere of trust and dialogue paving the way for substantive improvements in the workplace and for actively supporting mentoring and education initiatives to advance the mission of NOAA.

Joseph A. Uravitch (NOS): For serving as a leader and proactively demonstrating a commitment to the creation of a workplace which supports all employees through the development of various teams to improve decision making, internal communications, morale, teamwork and diversity.

Specialist/Professional Category

Catherine Godfrey (NESDIS): For coordinating various education initiatives in support of managing diversity, including survey, feedback and action.

Dennis Hansford (NMFS): For initiative in working in the areas of workforce and managing diversity, identifying reforms in recruitment and serving as a role model and mentor to students.

Ambrose Jearld (NMFS): For playing a key role in conceptualizing, organizing and chairing the NOAA-sponsored conference on expanding opportunities in oceanic and atmospheric sciences designed to strengthen linkages between NOAA and minority serving institutions.

Stanton Lum (OFA): For initiatives in designing tools within human resources which facilitate the sharing of information with NOAA customers and for an active role in workforce diversity improvements.

William L. Parker (NWS): For his role as a mentor and role model, in the initiation of partnerships with local schools to increase interest in meteorology and science and for giving presentations to schools and universities, encouraging youth to study and apply for vacancies in the sciences.

Dennis M. Weidner (NMFS): For more than thirty years, serving as a mentor and teacher of interns to ensure their diverse talents are maximized, serving as a facilitator, and planning seminars which address issues of importance to students.

Specialist/Professional and Support Categories

William T. Turnbull, Harriet M. Chesi, Janet E. Ward, Jean M. Fitch, Montrese A. Diggs and Victoria L. Harps (HPCC and GLOBE): For supporting NOAA Diversity Council education initiatives by fully supporting the broadcast of events

on the Internet to allow participation by field employees, promoting Internet access to Internet web services by people with disabilities, managing the NOAA HPCC Accessibility Laboratory, where latest innovations in web access software and equipment are tested and managing the GLOBE program, which is a hands-on-science and education program that unites students, teachers and scientists from around the world in study and research about the dynamics of the Earth's environment.

NOAA Coastal Services Center: For collectively striving to maintain an environment that works for all employees with 100-percent participation in survey feedback and action, including contract and non-contract employees, utilizing understanding differences tools throughout the center, such as Myers Briggs, and utilizing the full range of employee development and reward tools available to develop and recognize employees and modeling team behavior.

NWS Forecast Office, Springfield, Mo.:

For actively involving the office in career fairs, science fairs, community meetings, career counseling and mentoring and by initiating other measures which help create a workplace that supports all current and prospective employees.

Dennis Hoar, Elizabeth Wade, Juliana Blackwell, William T. McLemore, Jr.,

Joyce Turpin, Nancy McCary, J. Ross

MacKay and Shepherd A. Cofer (NOS): For proactively taking measures to support each employee by providing a supportive quality of work life as they strive to accomplish NOAA's mission as well as their professional goals. ☺

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